

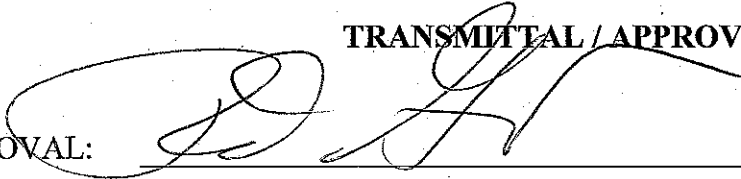
0070737

**100 AREA / 300 AREA UNIT MANAGERS' MEETING MINUTES***Groundwater / Source Operable Units / Facility Demolition*

March 9, 2006

**TRANSMITTAL / APPROVAL**

APPROVAL:



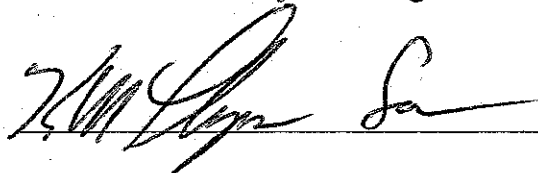
Date

6/8/06

**Kevin D. Bazzell, RL (A3-04)**

River Corridor Project Manager

APPROVAL:



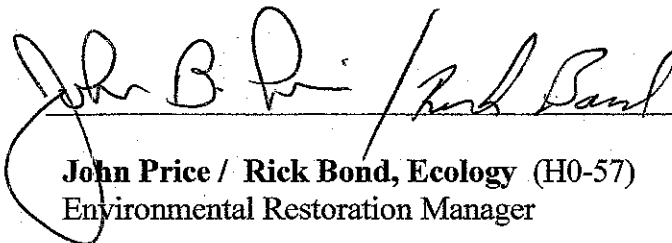
Date

06/08/06

**Briant Charbonneau, RL (A6-33)**

Groundwater Project Manager

APPROVAL:

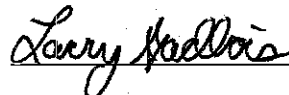


Date

6/08/2006

**John Price / Rick Bond, Ecology (H0-57)**  
Environmental Restoration Manager

APPROVAL:



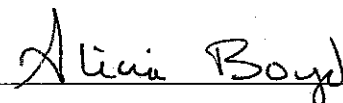
Date

July 13 2006

**Larry Gadbois, EPA (B1-46)**

100 Aggregate Area Unit Manager

APPROVAL:



Date

06-08-06

**Alica Boyd, EPA (B1-46)**

300 Aggregate Area Unit Manager

**RECEIVED**  
SEP 25 2006**EDMC**

**The attached March 9, 2006 UMM Meeting Minutes are comprised of the following:**

- Attachment 1** - March Agenda and Open Action Items
- Attachment 2** - Attendance Sheet
- Attachment 3** - 3/9/06 Unit Manager Meeting Minutes and New Action Items
- Attachment 4** - John Price (Ecology) 3/8 Email Delegation for 100 Area / 300 Area Combined UMM Meeting
- Attachment 5** - 100 UMM Groundwater Operable Unit Status
- Attachment 6** - Table A-3,100-KR-4 Operable Unit Lists.  
Approval by Larry Gadbois (EPA) and Mike Thompson (DOE)
- Attachment 7** - Dean Strom - Map of 100 B/C Area
- Attachment 8** - Dean Strom - Burial Grounds, Remaining Sites and Remaining Pipes and Sewers (RPAS) Listing
- Attachment 9** - Jack Donnelly approved National Priorities Listing (NPL) Agreement Copy
- Attachment 10** - 300 Area D & D Status

Prepared by:

Sharon Black**Sharon Black** (H0-19)

Admin, WCH Regulatory Integration and Outreach

Date

2/8/06

Concurrence by:

Dru Butler**Dru Butler** (H0-19)

Director, WCH Regulatory Integration and Outreach

Date

**100 AREA / 300 AREA UNIT MANAGERS' MEETING MINUTES***Groundwater / Source Operable Units / Facility Demolition***128830**

March 9, 2006

**DISTRIBUTION****DOE-RL**

Kevin Bazzell .....	A3-04
Briant Charboneau .....	A6-33
Clifford Clark .....	A3-04
Rudolph Guercia .....	A3-04
Roger Pressentin .....	A3-04
John Sands .....	A3-04
Douglas (Chris) Smith .....	A6-38
K (Mike) Thompson .....	A6-38
Arlene Tortoso .....	A6-38
Kent Westover .....	A3-04
Jamie Zeisloft .....	A3-04

**ECOLOGY**

Jeff Ayres.....	H0-57
Rick Bond .....	H0-57
Dib Goswami.....	H0-57
Alisa Huckaby.....	H0-57
John Price.....	H0-57
Beth Rochette.....	H0-57
Noel Smith-Jackson .....	H0-57
Jean Vanni.....	H0-57

**EPA**

Alica Boyd.....	B1-46
Dennis Faulk .....	B1-46
Larry Gadbois .....	B1-46

**FH**

Jane Borghese.....	E6-35
Ronald Jackson.....	E6-35
Robert Piippo.....	H8-12
John Winterhalder.....	E6-35

**PNNL**

John Fruchter .....	K6-96
Mary Hartman .....	K6-96
Ron Jackson .....	E6-35
Stuart Luttrell .....	K6-96
Thomas Naymik .....	K6-96
Robert Peterson .....	K6-75

**WCH**

Kimberley Anselm .....	H9-02
Tina Blakley .....	X0-17
Mark A. Buckmaster .....	X9-07
Dru Butler .....	H0-19
Stacy Callison .....	X9-07
Richard Carlson .....	X0-17
Steven Clark .....	H9-01
Kelly Cook .....	X0-17
Franklin Corpus .....	L6-06
John Darby .....	L6-06
Steven Dieterle .....	L1-04
Lorna Dittmer .....	H9-02
Jack Donnelly .....	X0-17
Jonathan Fancher .....	X5-57
Ken Gano .....	H9-03
Jim Golden .....	L1-04
Charles Hedel .....	H0-23
Larry Hulstrom .....	H0-23
Kim Koegler .....	L1-07
Roger Landon .....	H9-03
Deena La Rue .....	H0-20
Jeffrey Lerch .....	H0-23
John Ludowise .....	X0-17
Larry Miller (Rex) .....	X3-40
Jennifer Ollero .....	H0-19
Roger Ovink .....	H9-01
Scott Parnell .....	X5-57
Mike Schwab .....	H0-23
Annie Smet .....	X0-17
Bradley Smith .....	L1-01
Dean Strom .....	X3-40
Jill Thomson .....	H0-23
Steve Weiss .....	H0-23
Donna Yasek .....	L1-07

**ADMIN RECORD**

Debbie Isom - (2 copies) .....	H6-08
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Please forward distribution list changes to *Sharon Black* WCH (H0-19)

**100 AREA / 300 AREA UNIT MANAGERS' MEETING**

*Groundwater/ Source Operable Units / Facility Demolition*

March 9, 2006.

**ATTACHMENT 1**

March Agenda and Open Action Items

**100 AREA / 300 AREA UNIT MANAGER MEETING AGENDA***Groundwater / Source Operable Units / Facility Demolition***March 9, 2006**

Washington Closure Hanford (WCH), Hanford Square IV, Room 454 A&amp;B

- 1:00 to 1:30     **100 Area Groundwater**
- Open Action Items
  - 100-KR-4
  - 100-NR-2
  - 100-HR-3
  - Action Items
- 1:30 to 1:45     **300 Area Groundwater**
- Open Action Items
  - Project Specific Items
  - Action Items
- 1:45 to 2:15     **Groundwater/Source OU Integration**
- Open Action Items
  - Issues/Discussion
  - Action Items
- 2:15 to 3:00     **Field Remediation Closure**
- Open Action Items
  - 100/300 Area Common
    - Engineering Design and Closure
  - 100-B/C
  - 100-K
    - 118-K-1
  - 100-N
  - 100-D
  - 100-F/100-IU-2/6
  - 300 Area
  - Action Items
- 3:00 to 3:30     **End States and Final Closure Project**
- Open Action Items
  - 100 B/C Pilot Risk Assessment
  - 100/300 Area Risk Assessment
  - Columbia River Component
  - D Area Orphan Sites
  - Integrated Work Plan
  - Action Items
- 3:30 to 4:00     **D4**
- Open Action Items
  - 100 Area
  - 300 Area
  - Action Items
- 4:00 to 4:30     **Special Topics**
- MP-14 Approval Status

**NEXT MEETING:** April 13, 2006 WCH, Hanford Square IV, Room 454, A & B

**100 AREA / 300 AREA UNIT MANAGER MEETING AGENDA , cont'd**

*Groundwater / Source Operable Units / Facility Demolition*

**March 9, 2006**

**New Action Items From 2/9/06 Meeting**

- John Price (Ecology) requested comments on "aggressive" move forward in remediation in D Area for the 5 year ROD review.

**100 AREA / 300 AREA UNIT MANAGERS' MEETING**  
*Groundwater / / Source Operable Units / Facility Demolition*  
March 9, 2006

**ATTACHMENT 2**

Attendance Sheet



**100 AREA/ 300 AREA UNIT MANAGER MEETING***Groundwater / Remedial Action Unit / Source Operable Units***ATTENDANCE RECORD**

March 9, 2006

Name	Org	O.U. Role	Phone	Signature
ANSELM, KIMBERLY A.	WCH	100	372-9363	
AYRES, JEFF	ECY	100 / 300 Tech support	372-7881	
BAZZELL, KEVIN D.	DOE-RL	100	373-0463	
BOND, RICK	ECY/DOE	300	372-7885	
BORGHESE, JANE V	FH	100 / 300	373-3804	
BOYD, ALICIA	EPA	300	376-4919	<i>Alicia Boyd</i>
BUCKMASTER, MARK	WCH	100 Field Remediation Closure	521-2089	
BUTLER, DRU	WCH	100/300 Regulatory Integration	372-9956	
CALLISON, STACY W.	WCH	100 / 300	521-6515	
CARLSON, RICHARD A.	WCH	100 / 300	373-1440	
CHARBONEAU, BRIANT	DOE-RL	100 / 300	373-6137	
CLARK, CLIFFORD E (CLIFF)	DOE-RL	300 Regulatory Support	376-9333	
CLARK, STEVEN W.	WCH	100 / 300	372-9531	
COOK, KELLY E.	WCH	100 / 300	373-5275	
CORPUS, FRANKLIN M.	WCH	300	372-9979	
DARBY, JOHN W.	WCH	300 Area Task Lead	373-3008	<i>John Darby</i>
DIETERLE, STEVEN	WCH	300	372-9503	
DITTMER, LORNA M.	WCH	100 / 300	372-9664	<i>Lorna Dittmer</i>
DONNELLY, JACK W.	WCH	100 / 300	373-9299	
FANCHER, JONATHAN (JON)	WCH	100	373-9556	<i>Jon Fancher</i>
FAULK, DENNIS	EPA	100	376-8631	
FRUCHTER, JONATHAN	PNNL	100 / 300	376-3937	
GADBOIS, LARRY	EPA	100	376-9884	<i>Larry Gadbois</i>
GANO, KENNETH	WCH	100	372-9295	
GOLDEN, JAMES W.	WCH	100 / 300	521-0877	
GOSWAMI, DIB	ECOLOGY	100 Groundwater	372-7902	
GUERCIA, RUDOLPH (RUDY)	DOE-RL	300 D & D	376-5494	<i>Rudy Guercia</i>
HARTMAN, MARY	PNNL	100 Groundwater	373-0028	
HEDEL, CHARLES W.	WCH	100 / 300	372-2699	
HUCKABY, ALISA D.	ECY	100 Ecology	372-7909	
HULSTROM, LARRY	WCH	300	372-9291	
JACKSON, RONALD L.	FH	100 Goundwater	373-3599	<i>Ronald L. Jackson</i>
KOEGLER, KIM J.	WCH	300	373-4736	
LANDON, ROGER J.	WCH	100 / 300	372-9209	
LA RUE, DEENA N.	WCH	100 / 300 Report change control	375-9431	
LERCH, JEFFREY A.	WCH	100 / 300 ESFC	372-9206	<i>Jeff Lerch</i>

# 100 AREA/ 300 AREA UNIT MANAGER MEETING

Groundwater / Remedial Action Unit / Source Operable Units

## ATTENDANCE RECORD

March 9, 2006

Name	Org	O.U. Role	Phone	Signature
LUDOWISE, JOHN D.	WCH	100 / 300	373-1045	
LUTTRELL, STUART P.	PNNL	100 Groundwater	376-6023	
MILLER, LARRY (REX)	WCH	100	373-5876	
NAYMIK, THOMAS G	PNNL	300 Groundwater	376-0916	
OLLERO, JENNIFER F	WCH	100 / 300 Regulatory Integration	372-9620	Jennifer Ollero
OVINK, ROGER W.	WCH	100 / 300 S & D M	375-9426	
PARNELL, SCOTT E.	WCH	300 Field Remediation	373-9975	Scott E. Parnell
PETERSEN, SCOTT W.	DOE-RL	100	372-9126	
PETERSON, ROBERT E.	PNNL	100 / 300 Groundwater	373-9020	Robert Peterson
PIIPPO, ROBERT E.	FH	300	373-3285	
PRESSANTIN, ROGER A.	DOE-RL	300	376-1291	
PRICE, JOHN P.	ECY/DOE	100 / 300	372-7921	John P. Price
ROCHETTE, BETH	ECY	300 Tech support	372-7922	Beth Rochette
SANDS, JOHN P.	DOE-RL	100	372-2282	John P. Sands
SCHWAB, MICHAEL R.	WCH	100	372-9407	
SMET, ANN K. (ANNIE)	WCH	100 / 300	373-9683	
SMITH, BRADLEY A.	WCH	300 324 / 327 D4	373-2723	
SMITH, DOUGLAS (CHRIS)	DOE-RL	100 / 300	372-1544	
SMITH-JACKSON, NOEL	ECY	100 / 300	372-7926	Noel Smith-Jackson
STROM, DEAN	WCH	100 B/C	373-5519	Dean Strom
THOMPSON, K. (MIKE)	DOE-RL	100 / 300	373-0750	Mike Thompson
THOMSON, JILL E.	WCH	100 / 300	372-9200	Jill Thomson
TORTOSO, ARLENE C.	DOE-RL	100	373-9631	Arlene Tortoso
VANNI, JEAN	ECY	100 Lead Regulatory Permits	372-7930	Jean Vanni
WEISS, STEPHEN G.	WCH	100/300 Lead Tech Risk Assess	372-9495	Stephen Weiss
WESTOVER, KENT	DOE-RL	100 N3H	376-3967	Kent Westover
WINTERHALDER, JOHN A.	FH	100	372-8144	
YASEK, DONNA M.	WCH	100 / 300 D & D	372-9978	Donna Yasek
ZEISLOFT, JAMIE	DOE-RL	100	372-0188	Jamie Zeisloft
SHEA, JACQUELINE	ECY	100	372-7925	Jacqueline Shea
Lobos, Rod	EPA	100	376-3749	Rod Lobos
Sobczyk, Stan	Nez Perce ERWM			Stan Sobczyk
Lilligren, Sandra	Nez Perce ERWM			Sandra Lilligren
Cimarron, Sherry	ODOE			Sherry Cimarron
Johnson, U.G.	FH	100 NR 2	373-3987	U.G. Johnson
Teel, Darcy	WCH	Environmental	372-9029	Darcy Teel

**100 AREA / 300 AREA UNIT MANAGERS' MEETING**

*Groundwater/ / Source Operable Units / Facility Demolition*

March 9, 2006

**ATTACHMENT 3**

Meeting Minutes and New Action Items

**100 AREA / 300 AREA UNIT MANAGERS' MEETING MINUTES***Groundwater / Source Operable Units / Facility Demolition***MARCH 9, 2006**ADMINISTRATIVE:

- **Next Unit Manager Meeting (UMM)**

The next UMM meeting will be held on April 13, 2006 at Washington Closure Hanford (WCH), Hanford Square IV, Room 454, A & B

- **Delegation of Authority**

For the purpose of this meeting John Price (Ecology) delegated his authority under the Tri-Party Agreement (TPA) to Noel Smith-Jackson (Ecology) -- See delegation in *Attachment 4*.

- **Five Year Record of Decision (ROD) Review Status**

Mike Thompson, Department of Energy, Richland (DOE-RL) stated that the 5 Year ROD Review is currently reviewed by DOE-RL and will be forwarded to U.S. Environmental Protection Agency (EPA) and Ecology soon. The anticipated time frame for public review is within the next 3 to 4 weeks.

100 AREA GROUNDWATER

- **Open Action Items**

No open action items at this time.

- **100-NR-2** -- Status provided in *Attachment 5*.

Remediation Treatment Status: Effective today, the 100-NR-2 Pump and Treat is being placed in "cold standby".

The Ecological Impact Assessment is with the technical editors. They are having difficulties with the data on the histological anomalies. The Workshop targeted for March 21 will be delayed until more information is available on the data.

The Confederated Tribes of the Umatilla Indian Nation (CTUIR) will proceed with a geophysical monitoring.

- **100-KR-4** -- Status provided in *Attachment 5*

Design for the new pump and treat system at 100-KW is in progress to address the chromium plume. Additional funding from DOE-RL has accelerated the project by 6 months.

Table A-3 in the 100-KR-4 Operable Units Waste Management Plan was presented for approval and signed off by Mike Thompson (DOE) and Larry Gadbois (EPA). -- See **Attachment 6**.

- **100-HR-3** -- Status provided in **Attachment 5**.  
The chromium concentrations were expected to be below 22 parts per billion (ppb) in March 2006, however current trends indicate that plumes are currently around 30 ppb for three extraction wells. The cause is unknown but may be deeper aquifer contamination. Fluor Hanford (FH) will continue with the pump and treat.  
  
Alisa Huckaby (Ecology) stated that she has been unable to duplicate the averages for H Area provided in the Efficiency Report . -- See **New Action Items**.
- **100-FR-3 and 100-BC-5**  
Sampling events done. The 100-FR-3 results show elevated gross beta and have re-sampled to help identify the cause. No results known yet and results turnaround time not known.

### 300 AREA GROUNDWATER

- **Open Action Items**  
No open action items at this time
- **Project Specific Items**
  - 300-FF-5 monitoring on schedule.
  - DOE to resolve Ecology comments on Limited Field Investigation (LFI) Plan. DOE-RL determined that some of the comments will be addressed in the LFI; others are better suited to be addressed in the Operations and Maintenance (O&M) Plan.
  - The Annual Report is complete and on Groundwater website for viewing.

### GROUNDWATER / SOURCE OU INTEGRATION

- **Open Action Items**  
No open action items at this time
- **Issues / Discussion**
  - **100-F Area** -Rod Lobos (EPA) stated that the sampling frequency for 100-FR-3 may need to be adjusted to reflect WCH remediation activities. FH requested that WCH provide maps of current and planned remediations/excavations at 100-F. -- See **New Action Items**.
  - Rich Carlson (WCH) reported that FH and WCH are meeting monthly to avoid conflicts and to discuss remediation and near term plans.



## FIELD REMEDIATION CLOSURE

- **Open Action Items**

- **Action** John Price (Ecology) requested comments on “aggressive” move forward in remediation in D Area for the 5 Year Record of Decision (ROD) review.  
**Status** John Price (Ecology) qualified his action stating that it was a suggestion for WCH to take credit in the 5 Year ROD review for their aggressive response to Ecology’s recommendations during their new move forward in the remediation process in D area.

- **100 /300 Area Common**

- **Engineering Design** Rich Carlson (WCH) reported status.

100-HR-1 and 100-HR-2 Design work on burial grounds and Remove, Treat and Dispose (RTD) remaining sites has been accelerated. The associated TPA Milestone to initiate remedial action for these waste sites is in July 2007.

300-FF-2 The first of several supplemental design packages is currently being developed.

- **Engineering Closure** Lorna Dittmer (WCH) presented status.  
116-N-1 - Backfill concurrence is with Ecology. Cleanup Verification Package (CVP) is being prepared. Ecology stated it would have the documentation reviewed in 3 weeks from today (3/9/06). Ecology committed to notify WCH of any issues identified during the review.

Lorna Dittmer (WCH) to get with Jack Donnelly (WCH) and Alicia Boyd (EPA) on a sampling model for 300-7, 300-9, and 331 Drain Fields.

- **Issues on Remaining Site Verification Packages (RSVPs) and CVP Issue**  
 Larry Gadbois (EPA) stated that meetings are continuing on how to address the ecological risks in RSVP and CVPs. John Price (Ecology) and Nick Ceto (EPA) have been briefed but there is no decision yet. Rich Carlson (WCH) feels they are making headway towards and acceptable resolution.
- **RESRAD Side by Side Comparison Issue**  
 Rich Carlson (WCH) stated that WCH is running the SESOIL model for the purpose of comparing RESRAD outputs for non-radiological constituents to an EPA recognized model (SESOIL) for those same constituents. RESRAD has been used for radiological and non-radiological screening to date. Concerns have been raised as to whether RESRAD provides a conservative analysis for the non-radionuclides. The model has been run for several constituents and is currently being run for chromium. Another potential screening model is “STOMP”, also recognized by the EPA. WCH is currently setting up the capability to run this model, but is hopeful that SESOIL will provide the sufficient information. MODFLOW is another possibility for a screening process.

- **100-B/C** Dean Strom (WCH) presented status.
  - 100B/C Project -- Status provided in *Attachment 7* and *Attachment 8*.
  - 100 B/C Remaining sites -- Status provided in *Attachment 7* and *Attachment 8*.
  - Remaining Pipelines and Sewers (RPAS) project -- Status provided in *Attachment 7* and *Attachment 8*.

Per Dennis Faulk's (EPA) request Jack Donnelly (WCH) submitted the approved National Priorities List (NPL) agreement for staging pile area - Document # DOE/RL-96-17, Rev.5 Remedial Design Report/Remedial Action Work Plan for the 100 Area. --See document in *Attachment 9*.

- **100-K**  
Revegetation activities in progress, burial ground path forward starts in April. Northwind chronometers did 24 screenings in two days. Performed a modification to screens. Next week will review work plan and then start of work expected in two weeks.
  - **118-K-1**  
Jamie Zeisloft (DOE) reported the project has received an exemption from doing an operational readiness review.
- **100-N**  
See Engineering Closure for status of 116-N-1. Subcontract for backfilling has been awarded to Delhur.
- **100-D**  
Request for proposal (RFP) for remediation of the burial grounds and the RTD remaining sites is still out for bid. Startup of field remediation is currently planned by the end of July.
- **100-F**  
Completed backfill of the 182-F Reservoir  
Continued loadout activities associated with the 118-F-5 Burial Ground  
Initiated primary sorting activities associated with the 118-F-3 Burial Ground  
Continued closeout sampling for the 100 F remaining sites.
- **100-IU-2/6**  
Completed design submits. Remediation activities will resume in FY07.
- **300 Area**
  - **618-2**  
Continuing load out of the staging piles. Using staging area to mix fixative. Expect to be out of trenches by mid-May.
  - **618-10 and 618-11**

Still working design solution. Suggested that WCH provide Nick Ceto (EPA) a project update.

- ***Work Instruction Issues***

An issue was discussed regarding geophysical anomalies found at sites that are not always addressed in the work instructions, for example septic tanks. Lorna Dittmer (WCH) suggested that anomalies be noted in the document table, but discussed later with End States and Final Closure.

#### END STATES AND FINAL CLOSURE PROJECT

- ***Open Action Items***

No open actions at this time.

- ***100 B/C Pilot Risk Assessment***

Rev B issued with and updated technical memo for re-sampling of archive samples for BC pilot.

- ***100/300 Area Risk Assessment***

WCH's sampling and analysis plan (SAP) has been approved. Continuing with fish, riparian sampling and annual traps for biological sampling to get results.

- ***Columbia River Component***

Database in progress.

***D Area Orphan Sites***

Jeff Lerch (WCH) stated that D Orphan site evaluation is in progress. Historical review will be complete in April and a field walk down will follow. Next week there is a WCH meeting to brief representatives from WCH Field Remediation, FH Groundwater, and RL on the historical review status, potential orphan sites and possible sources of chromium at 100 D Area. -- See *New Action Items*.

- ***Integrated Work Plan***

Jeff Lerch (WCH) stated that the integration strategy draft document internal review will begin in late March. The strategy summarizes source unit and groundwater cleanup actions in the river corridor and presents options for final remedy decision pathways. It will be reviewed but not approved by regulators and will serve as foundation for future discussions with Tri-Parties.

#### DEACTIVATION, DECONTAMINATION, DECOMMISSION, DEMOLITION D4)

- ***Open Action Items***

No open actions at this time.

- ***100 Area***

Jim Golden (WCH) presented status



- Provided copies of the draft Engineering Evaluation/Cost Analysis (EE/CA ) #3 for K Reactor and the draft Remedial Action Work Plan (RAWP) for 324/327 to EPA and Ecology for review.
- **300 Area**
  - ***Characterization Summary Report (CSR )***  
Jim Golden (WCH) will email Alicia Boyd (EPA) a request to cease the preparation of CSRs for future buildings.
  - ***300 Area D4 SAPs***  
Alicia Boyd (EPA) reported that EPA has concerns with the format of the SAPs. Too many company procedures are referenced in the SAP, and EPA is not included in the review and approval of the procedures when changes are made to them. As a result, members from Deactivation, Decommissioning, Decontamination, and Demolition (D4) and Field Remediation will work with EPA and Ecology to establish criteria for a more stand-alone SAP. EPA will provide WCH with a list of the types of procedures that they believe should be further described in the SAP. EPA and Ecology agreed that work may continue to the existing approved SAPs. It is expected that the new format will be implemented as existing SAPs are revised, or new SAPs are issued. -- See ***New Action Items***.
  - Donna Yasek (WCH) and Rudy Guercia (DOE) presented status -- provided in ***Attachment 10***.
  - ***324 Building*** The 300 Area SAP needs to be updated to include characterization of the 324 and 327 hot cells, but there may be delays due to EPA's issues with the 300 Area SAP.

#### SPECIAL TOPICS

- **MP-14 Approval status**  
John Sands requested status and was told this is still on hold. John Price (Ecology) arrived later during the meeting and said that he has not had legal advice yet on this. John Price will try to schedule a meeting to discuss this.

#### NEW ACTION ITEMS

- (100 Groundwater) ***Ron Jackson (PNNL)*** to schedule meeting with Ecology to resolve question of what determines efficiency factor in Annual Report. Need to know what data used and how averaging into factor.
- (Groundwater and Source Integration) ***Mike Thompson (DOE)*** and ***Chris Smith (DOE)*** to look at wells in 100F area and where water being applied to determine if frequency of sampling needs changed. Will need maps from WCH.

- (End States) **John Price (Ecology)**, **Jeff Ayres (Ecology)** and **Jacqueline Shea (Ecology)**, to be invited to meeting for 100-D Orphan Sites next week March 14, 2pm. WCH to present information on possible sources of chromium.
- (D4) **Alicia Boyd** and **Larry Gadbois (EPA)** will detail expectations on SAPs regarding qualification for BHI internal references.

**100 AREA / 300 AREA UNIT MANAGERS' MEETING**

*Groundwater/ / Source Operable Units / Facility Demolition*

March 9, 2006

**ATTACHMENT 4**

John Price (Ecology) 3/8/06 Email Delegation for  
100 Area / 300 Area Combined UMM Meeting

**Black, Sharon P**

**From:** Price, John [Jpri461@ECY.WA.GOV]  
**Sent:** Wednesday, March 08, 2006 9:23 AM  
**To:** Black, Sharon P  
**Subject:** RE: Delegation for: 100/300Area Combined UMM Meeting

Okay.

---

**From:** Black, Sharon P [mailto:sharon.black@wch-rcc.com]  
**Sent:** Wednesday, March 08, 2006 9:19 AM  
**To:** Price, John  
**Subject:** RE: Delegation for: 100/300Area Combined UMM Meeting

John,

Thank you for your delegation notification. Do you want me to note this delegation in the UMM Minutes?  
 Let me know.

Sharon Black  
 Regulatory Integration and Outreach Admin  
 372-9543

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**From:** Price, John [mailto:Jpri461@ECY.WA.GOV]  
**Sent:** Tuesday, March 07, 2006 5:12 PM  
**To:** Black, Sharon P; Kemp, Christopher J (DOH); Anselm, Kimberly A; Ayres, Jeff; Bazzell, Kevin D; Bond, Rick (ECY); Borghese, Jane V; Boyd, Alicia; Buckmaster, Mark A; Butler, Dru H; Callison, Stacey W; Carlson, Richard A; Charboneau, Briant L; Clark, Clifford E (Cliff); Clark, Steven W; Cook, Kelly E; Corpuz, Franklin M; Darby, John W (300 Area TL); Dieterle, Steven E; Dittmer, Lorna M; Donnelly, Jack W; Fancher, Jonathan D (Jon); Faulk, Dennis; Fruchter, Jonathan S; Gadbois, Larry; Gano, Kenneth A (Ken); Golden, James W; Goswami, Dib (ECY); Guercia, Rudolph F (Rudy); Hartman, Mary J; Hedel, Charles W; Huckaby, Alisa; Hulstrom, Larry C; Jackson, Ronald L; Koegler, Kim J; Landon, Roger J; LaRue, Deena N; Lerch, Jeffrey A; Ludowise, John D; Luttrell, Stuart P; Miller, Larry R (Rex); Naymik, Thomas G (PNNL); Ollero, Jennifer F; Ovink, Roger W; Parnell, Scott E; Petersen, Scott W; Peterson, Robert E; Piippo, Robert E; Pressentin, Roger A; Rochette, Beth; Sands, John P; Schwab, Michael R; Shea, Jacqueline; Smet, Ann K (Annie); Smith, Bradley A; Smith, Douglas C (Chris); Smith-Jackson, Noe'l; Strom, Dean N; Thompson, K M (Mike); Thomson, Jill E; Tortoso, Arlene C; Vanni, Jean; Weiss, Stephen G; Westover, Kent R; Winterhalder, John A; Yasek, Donna M; Zeisloft, Jamie  
**Subject:** Delegation for: 100/300Area Combined UMM Meeting

In accordance with Section 4.1 of the TPA Action Plan, I am delegating my TPA project manager responsibility and authority to Noe'l Smith-Jackson for the 100/300 Unit Manager on March 9. She has the necessary training and experience to fulfill this role.

---

**From:** Black, Sharon P [mailto:sharon.black@wch-rcc.com]  
**Sent:** Monday, March 06, 2006 2:41 PM  
**To:** Black, Sharon P; Kemp, Christopher J (DOH); Anselm, Kimberly A; Ayres, Jeff; Bazzell, Kevin D; Bond, Rick (ECY); Borghese, Jane V; Boyd, Alicia; Buckmaster, Mark A; Butler, Dru H; Callison, Stacey W; Carlson, Richard A; Charboneau, Briant L; Clark, Clifford E (Cliff); Clark, Steven W; Cook, Kelly E; Corpuz, Franklin M; Darby, John W (300 Area TL); Dieterle, Steven E; Dittmer, Lorna M; Donnelly, Jack W; Fancher, Jonathan D (Jon); Faulk, Dennis; Fruchter, Jonathan S; Gadbois, Larry; Gano, Kenneth A (Ken); Golden, James W; Goswami, Dib (ECY); Guercia, Rudolph F (Rudy); Hartman, Mary

J; Hedel, Charles W; Huckaby, Alisa; Hulstrom, Larry C; Jackson, Ronald L; Koegler, Kim J; Landon, Roger J; LaRue, Deena N; Lerch, Jeffrey A; Ludowise, John D; Luttrell, Stuart P; Miller, Larry R (Rex); Naymik, Thomas G (PNNL); Ollero, Jennifer F; Ovink, Roger W; Parnell, Scott E; Petersen, Scott W; Peterson, Robert E; Piippo, Robert E; Pressentin, Roger A; Price, John; Rochette, Beth; Sands, John P; Schwab, Michael R; Shea, Jacqueline; Smet, Ann K (Annie); Smith, Bradley A; Smith, Douglas C (Chris); Smith-Jackson, Noel; Strom, Dean N; Thompson, K M (Mike); Thomson, Jill E; Tortoso, Arlene C; Vanni, Jean; Weiss, Stephen G; Westover, Kent R; Winterhalder, John A; Yasek, Donna M; Zeisloft, Jamie

**Subject:** 100/300Area Combined UMM Meeting  
**When:** Thursday, March 09, 2006 1:00 PM-4:30 PM (GMT-08:00) Pacific Time (US & Canada); Tijuana.  
**Where:** Hanford Square IV, Room 454 A&B

*To all -*

*I apologize, my Outlook had a problem in the distribution list and I had to cancel and redo the UMM meeting appointment to update your Outlook calendars to the new timing.*

*Sharon*

### **COMBINED 100 / 300 Areas Unit Manager**

#### **Meetings:**

The combined 300/Groundwater/100 UMM will  
be held on

**2nd Thursday of every month  
at Washington Closure Hanford  
Hanford Square IV  
Conference Room 454**

**from 1:00 to 4:30pm.**

*Thank you!  
Sharon Black  
Administrative Assistant  
Regulatory Integration and Outreach  
372-9543*

**100 AREA / 300 AREA UNIT MANAGERS' MEETING**  
*Groundwater/ / Source Operable Units / Facility Demolition*  
March 9, 2006

**ATTACHMENT 5**

100 UMM Groundwater Operable Unit Status

100 UMM  
Groundwater Operable Unit Status  
March 9, 2006

**100-NR-2 Groundwater OU - Russ Fabre**

- Remediation Treatment Status
  - Preparations are being made to place the pump and treat system in cold standby.
  - Target date for shutdown is March 9, 2006.
- Ecological Impact Assessment
  - Work continued on updating the draft and disposition of Ecology's comments.
  - A workshop for discussion of histologic anomalies is tentatively planned for March 21, 2006.
- Apatite Treatability Testing Status
  - Ecology and EPA comments on the treatability test plan were addressed and revised text returned for concurrence.
  - 6 of the 10 new planned injection wells were completed during the period.
  - An additional monitoring well (188-N-147) will be constructed near the downstream extent of the apatite barrier. A revised Appendix A, 100-NR-2 well list is attached to reflect this additional well.
  - All but 2 of the 10 pilot test wells were installed. Initial development indicates the wells are able to produce water and will be suitable for the pilot test monitoring purposes.
- Confederated Tribes of the Umatilla Indian Nation (CTUIR) Geophysical Monitoring
  - MOA has been completed and is with the responsible parties for signature
  - Planned field work is scheduled for March 9<sup>th</sup> through March 13, 2006.

**100-KR-4 Groundwater OU - Ron Jackson**

- Remediation Treatment Status
  - For the period of January 30-February 26, 2006:
    - Pump-and-treat system operated normally.
    - Total average flow through the system was approximately 288 gpm.
    - Average influent hexavalent chromium concentration was 0.051 mg/L.
- Calcium Polysulfide Treatability Test Status
  - DOE/RL-2006-17, Rev. 0, *Treatability Test Report for Calcium Polysulfide in the 100-K Area*, has been released. Hexavalent chromium continues to remain low (e.g. below the RAOs of 0.020 mg/L) at the 100-KR-4 treatability test site.
- KW Groundwater Remediation
  - Briefed EPA (2/22/06) on the new pump and treat system in the KW Reactor Area. The system will deploy ion exchange technology. The first phase of the treatment will focus on the high concentration portion of the chromium plume. The treatment system is expected to be online in December 2006. Locations of the extraction and injection wells are shown in Attachment 1, and reflected in an update to Table A-3 of the Interim Action Waste Management Plan for the 100-

100 UMM  
Groundwater Operable Unit Status  
March 9, 2006

HR-3 and 100-KR-4 Operable Units. Approval of the updated table is requested via acknowledgement in the 100 Area Unit Manager's Meeting minutes.

**100-HR-3 Groundwater OU - Ron Jackson**

- Remediation Treatment Status
  - For the period January 30-February 26, 2006:
    - Pump and treat system operated normally.
    - Total average flow through the system was approximately 213 gpm.
    - Average influent hexavalent chromium concentration for H Area was 0.046 mg/L.
    - Average influent hexavalent chromium concentration for D Area was 0.159 mg/L.
- Overall cleanup of chromium in 100-H is progressing well. Only wells H4-12A, H4-15A, and H4-64 remain above the RAOs and trending downward. Expecting chromium concentrations in the wells to reach below 22 ppb in March 2006. (See Attachments 1 and 2)
- DR-5 Treatment Status
  - For the period January 30-February 26, 2006:
    - System operated at about 85 per cent.
    - Total average flow was approximately 40 gpm.
    - The average influent hexavalent chromium concentration was 0.824 mg/L.
- Summary of ISRM Status
  - Collected and analyzed samples from the ISRM in February, 2006. No significant changes.
- Received final report titled "Geophysical Investigations of the In Situ Redox Manipulation Barrier." Some of the conclusion from the report are:
  - Self potential technique correlated to some extent with chromium concentrations in the aquifer
  - Induced polarization shows poor correlation with chromium concentrations or reduced areas
  - Geophysical data were collected during high river stage, which was not optimum for evaluating barrier performance/ Cr concentrations
- D Area Groundwater Plume Definition
  - Three wells are planned in FY06 to be drilled in the vicinity of the 190-DR clear wells to help define the up-gradient portion of the chromium groundwater plume. Meetings have been held between RL, Ecology, and WCH to coordinate the drilling schedule (and location) to the WCH's excavation schedule. These wells are identified on the draft M-24 list. (No change)



Existing well  
199-K-132

C5113  
199-K-138

C5114  
199-K-139

C5115  
199-K-140

C5112  
199-K-137

K-100 Building

K-100 Annex

K-100 West Building

**GROUNDWATER REMEDIATION PROJECT**

**100-HR-3 (100-H Area)**

**Legend:**

- Extraction Well
- ▼ Injection Well
- ◆ Compliance Monitoring Well
- Monitoring Well
- ▲ Aquifer Tube
- ◈ Extraction/Compliance Well

**Scale:**

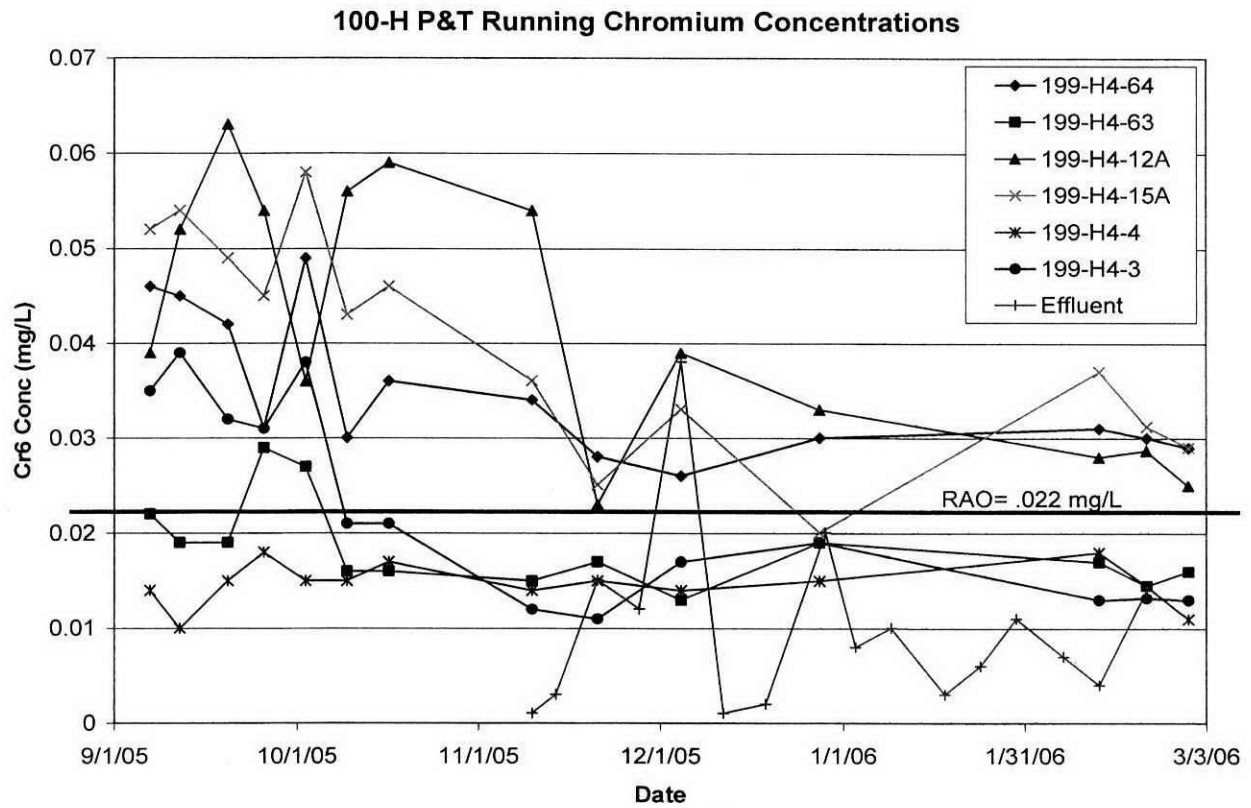
- Fall 2004 - 20 ug/l
- - - September 2005 - 20 ug/l
- . - . November 2005 - 20 ug/l
- - - - December 2005 - 20 ug/l

**Map Labels:**

- Columbia River
- 1713-H Building
- 183-H Solar Evaporation Basins
- 100-H Reactor
- 107-H Retention Basin
- 116-H-1 Trench
- Solid Waste Burial
- H4-10, H4-17, H4-15, H4-9, H4-5, H4-8, H4-7, H4-6, H4-3, H4-4, H4-12A, H4-65, H4-14, H4-18, H4-48, H4-47, H4-16, H4-49, H4-46, H4-2, H4-45, H6-1, H5-1A, H3-1, H3-2A, B, and C, H3-3, H3-4
- AT-H-1, AT-H-2, AT-H-3
- 46, 47, 48, 49

3

100 UMM  
Groundwater Operable Unit Status  
March 9, 2006



Attachment 3 – 100-H Chromium Trend Plots (Draft)

**Table A-3. 100-KR-4 Operable Unit Lists\***

(This list will be updated as necessary, presented at the 100 Areas Unit Manager's Meeting,  
And included in the UMM minutes)

Shading indicates wells added for this change.

Well Names				
199-K-11	199-K-34	199-K-116A	199-K-130	699-87-55
199-K-13	199-K-35	199-K-117A	199-K-131	C3152
199-K-18	199-K-36	199-K-118A	199-K-132	C3158
199-K-19	199-K-37	199-K-119A	199-K-133	C3162
199-K-20	199-K-106A	199-K-120A	199-K-134	C3163
199-K-21	199-K-107A	199-K-121A	199-K-135	C3164
199-K-22	199-K-108A	199-K-122A	199-K-136	199-K-137
199-K-23	199-K-109A	199-K-123A	699-70-68	199-K-138
199-K-27	199-K-110A	199-K-124A	699-72-73	199-K-139
199-K-29	199-K-111A	199-K-125A	699-73-61	199-K-140
199-K-30	199-K-112A	199-K-126	699-77-54	--
199-K-31	199-K-113A	199-K-127	699-78-62	--
199-K-32A	199-K-114A	199-K-128	699-81-62	--
199-K-32B	199-K-115A	199-K-129	699-84-63D	--
Aquifer Tubes				
14-D	19-D	23-M	AT-K-3-D	AT-K-5-S
14-M	19-M	25-D	AT-K-3-M	AT-K-6-D
14-S	21-M	26-D	AT-K-3-S	AT-K-6-M
15-M	21-S	26-M	AT-K-4-M	AT-K-6-S
17-D	22-D	26-S	AT-K-4-S	DK-04-2
17-M	22-M	AT-K-1-D	AT-K-5-D	DK-04-3
18-S	23-D	AT-K-2-M	AT-K-5-M	--
Seep				
SK-057-3	SK-077-1	SK-082-2	SK-063-1	--

\*Revised Table A-3 was presented at the 100 Areas Unit Manager's Meeting on March 9, 2006

---

**APPENDIX A\*****100-NR-2 WELLS**

(This list will be updated as necessary, presented at the 100 Areas Unit Manager's Meeting,  
and included in the UMM minutes)

Shading indicates wells added for this change.

199-N-103A	199-N-104A	199-N-105A
199-N-106A	199-N-14	199-N-16
199-N-18	199-N-19	199-N-2
199-N-21	199-N-22	199-N-26
199-N-27	199-N-28	199-N-29
199-N-3	199-N-32	199-N-34
199-N-41	199-N-42	199-N-49
199-N-50	199-N-51	199-N-52
199-N-57	199-N-59	199-N-62
199-N-64	199-N-67	199-N-70
199-N-71	199-N-72	199-N-73
199-N-74	199-N-75	199-N-76
199-N-77	199-N-80	199-N-81
199-N-8S	199-N-92A	199-N-96A
199-N-99A	199-N-122	199-N-123
199-N-147		

\*Revised App. A Well List was Presented at the 100 Area Unit Manager's Meeting on March 9, 2006

**100 AREA / 300 AREA UNIT MANAGERS' MEETING**

*Groundwater// Source Operable Units / Facility Demolition*

March 9, 2006

**ATTACHMENT 6**

Table A-3, 100-KR-4 Operable Unit Lists

Approval by Larry Gadbois (EPA) and Mike Thompson (DOE)

DOE/RL-97-01, Rev. 5

Approved  
 Larry Stedrovia  
 March 9, 2006  
 John Mann 3/09/06

**Table A-3. 100-KR-4 Operable Unit Lists\***

(This list will be updated as necessary, presented at the 100 Areas Unit Manager's Meeting,  
 And included in the UMM minutes)

Shading indicates wells added for this change.

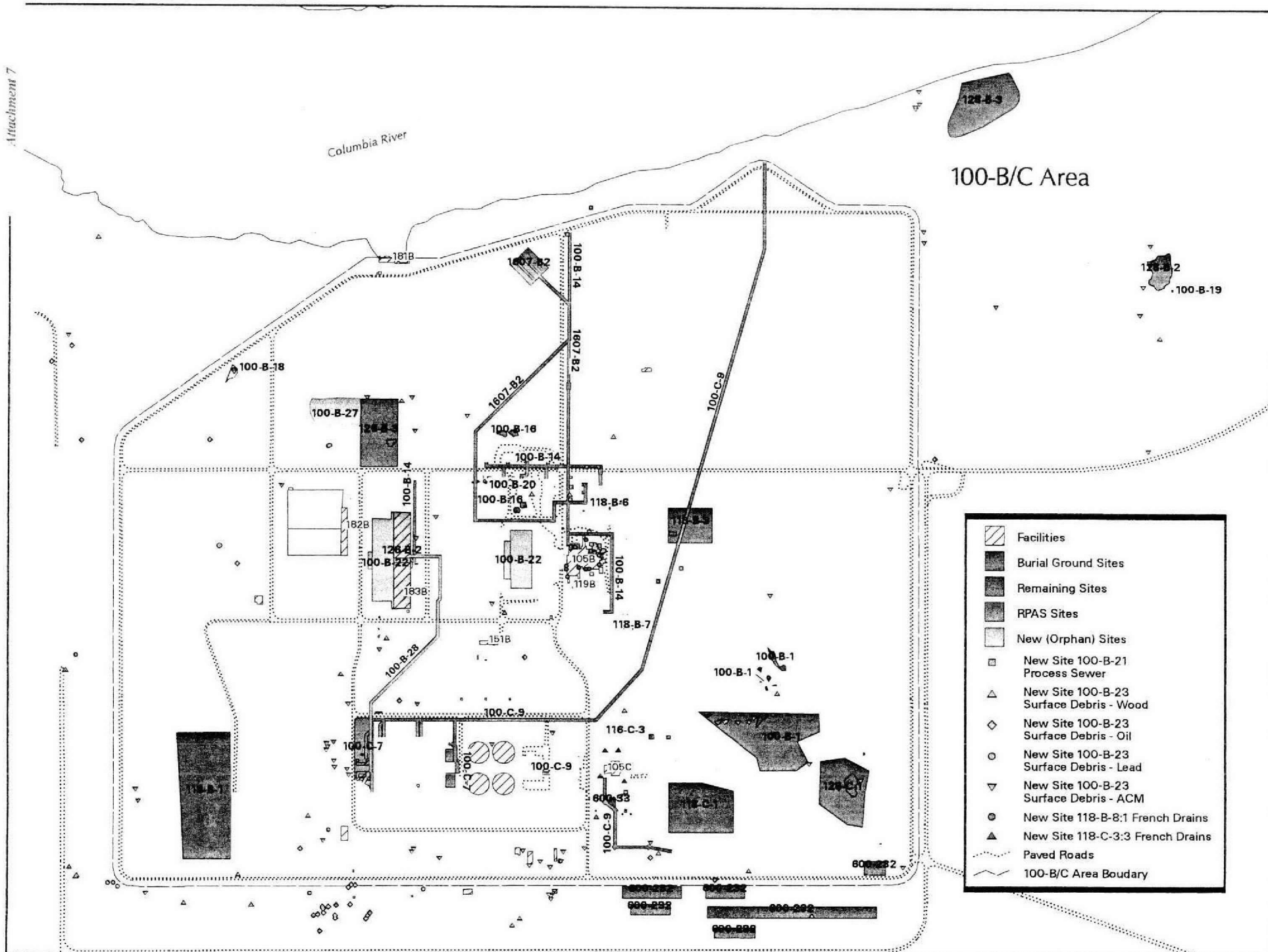
Well Names				
199-K-11	199-K-34	199-K-116A	199-K-130	699-87-55
199-K-13	199-K-35	199-K-117A	199-K-131	C3152
199-K-18	199-K-36	199-K-118A	199-K-132	C3158
199-K-19	199-K-37	199-K-119A	199-K-133	C3162
199-K-20	199-K-106A	199-K-120A	199-K-134	C3163
199-K-21	199-K-107A	199-K-121A	199-K-135	C3164
199-K-22	199-K-108A	199-K-122A	199-K-136	<del>199-K-137</del>
199-K-23	199-K-109A	199-K-123A	699-70-68	<del>199-K-138</del>
199-K-27	199-K-110A	199-K-124A	699-72-73	<del>199-K-139</del>
199-K-29	199-K-111A	199-K-125A	699-73-61	<del>199-K-140</del>
199-K-30	199-K-112A	199-K-126	699-77-54	--
199-K-31	199-K-113A	199-K-127	699-78-62	--
199-K-32A	199-K-114A	199-K-128	699-81-62	--
199-K-32B	199-K-115A	199-K-129	699-84-63D	--
Aquifer Tubes				
14-D	19-D	23-M	AT-K-3-D	AT-K-5-S
14-M	19-M	25-D	AT-K-3-M	AT-K-6-D
14-S	21-M	26-D	AT-K-3-S	AT-K-6-M
15-M	21-S	26-M	AT-K-4-M	AT-K-6-S
17-D	22-D	26-S	AT-K-4-S	DK-04-2
17-M	22-M	AT-K-1-D	AT-K-5-D	DK-04-3
18-S	23-D	AT-K-2-M	AT-K-5-M	--
Seep				
SK-057-3	SK-077-1	SK-082-2	SK-063-1	--

\*Revised Table A-3 was presented at the 100 Areas Unit Manager's Meeting on March 9, 2006

**100 AREA / 300 AREA UNIT MANAGERS' MEETING**  
*Groundwater// Source Operable Units / Facility Demolition*  
March 9, 2006

**ATTACHMENT 7**

Dean Strom - Map of 100 B/C Area





**100 AREA / 300 AREA UNIT MANAGERS' MEETING**  
*Groundwater// Source Operable Units / Facility Demolition*  
March 9, 2006

**ATTACHMENT 8**

Dean Strom – Burial Grounds, Remaining Sites  
and Remaining Pipelines and Sewers (RPAS) Listing

3/9/2006

**Burial Grounds:**

- 118-B-1: Currently removing a few "hot spots" identified by LARADS.  
Working with a subcontractor on the compressed gas cylinders.  
Working on reducing the number of anomalous items.
- 118-C-1: Excavating and loading out material. Approximately 85% complete.  
Targeting the end of this month to be complete with excavation.

**Remaining Sites:**

- 126-B-3: Close-out sample data is coming in. Everything looks good.
- 128-B-3: Loading out stock piled material. Should be complete in a few weeks.  
Close-out sampling will follow shortly after.

**RPAS:**

- 100-C-9:1N Box Culvert:  
Backfill is complete.
- 100-C-9:1S Box Culvert:  
Begin optional scope work within a few weeks.
- 100-B-14 Remaining to be excavated: small shallow pipeline (20ft), section under B Ave, and  
1500 BCM associate with Cr.

**Miscellaneous:**

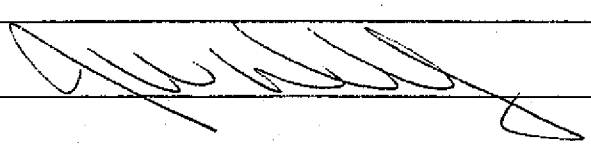
**100 AREA / 300 AREA UNIT MANAGERS' MEETING**

*Groundwater / / Source Operable Units / Facility Demolition*

March 9, 2006

**ATTACHMENT 9**

Jack Donnelly- Approved National Priorities List  
(NPL) Agreement Copy

<b>Control Number:</b> N/A	<b>NPL Agreement/Change Control Form</b>  <input type="checkbox"/> Change <input checked="" type="checkbox"/> Agreement <input type="checkbox"/> Information <b>Operable Unit(s):</b>	<b>Date Submitted:</b> Feb. 14, 2006  <b>Date Approved:</b>
<b>Document Number/Title:</b> DOE/RL-96-17, Rev 5, <i>Remedial Design Report/Remedial Action Work Plan for the 100 Area</i>		<b>Date Document Last Issued:</b> February 2005
<b>Originator:</b> Jack Donnelly		<b>Phone:</b> 373-9299
<b>Summary Discussion:</b> <p>Section 4.5.2 of the <i>Remedial Design Report/Remedial Action Work Plan for the 100 Area</i> (RDR/RAWP) identifies the requirements for waste staging piles. Staging piles are allowed to operate for up to 2 years unless the U.S. Environmental Protection Agency (EPA) grants an operating term extension.</p> <p>At the 100-B/C area, the remediation efforts having staging piles in operation, and the 2-year time limit expires March 16, 2006. An extension to June 30, 2007 is requested for the 100-B/C staging piles based on the information provided below.</p>		
<b>Justification and Impact of Change:</b> <p>The time extension is necessary for the following reasons:</p> <ul style="list-style-type: none"> <li>Excavation and sorting operations at the 100-B/C waste sites was shutdown for 11 months (Sept. 2004 to August 2005) due to discovery of spent nuclear fuel. As a result, revisions to project nuclear safety documentation were required to address the fuel (i.e., authorization documents). Waste sorting of staging piles could not be worked during this time period.</li> <li>The extent of anomalous material discovered is more than expected. Some of this waste requires further characterization and treatment. Treatment plans have been developed or are being developed to identify the treatment processes.</li> <li>Discovery of anomalous material has required Level B personnel protective equipment to be utilized and this requires additional planning and time to ensure the safety of the workers.</li> <li>Waste volumes from some of the waste sites have exceeded the original design and the additional volume requires additional time for treatment, if required, and disposal.</li> </ul>		
<b>WCH Project Manager</b> 		<b>Date:</b> 2/21/2006
<b>DOE Project Manager:</b>		<b>Date:</b>
<b>Ecology Project Manager:</b> N/A		<b>Date:</b> N/A
<b>EPA Project Manager:</b>		<b>Date:</b>
<b>Per Action Plan for Implementation of the Hanford Consent Order and Compliance Agreement Section 9.3</b>		

**Donnelly, Jack W**

---

**From:** Smith, Douglas C (Chris)  
**Sent:** Tuesday, February 21, 2006 2:00 PM  
**To:** Donnelly, Jack W  
**Subject:** FW: FW: NPL Agreement Form for Time Extension on 100-B/C staging piles

-----Original Message-----

**From:** Faulk.Dennis@epamail.epa.gov [mailto:Faulk.Dennis@epamail.epa.gov]  
**Sent:** Tuesday, February 21, 2006 1:45 PM  
**To:** Smith, Douglas C (Chris)  
**Subject:** Re: FW: NPL Agreement Form for Time Extension on 100-B/C staging piles

ok by me

**100 AREA / 300 AREA UNIT MANAGERS' MEETING**

*Groundwater / / Source Operable Units / Facility Demolition*

March 9, 2006

**ATTACHMENT 10**

300 Area D & D Status

300 Area D&D Status  
March 9, 2005  
100/300 Area Combined Unit Manager Meeting

**Characterization/ Hazardous Material Removal**

- 333 - Hazardous material removal in ongoing.
- 303-M – Bag house filters will be removed at the beginning of demolition.
- 3707D – hazardous material removal will be completed in March

**Ready for Demolition this month (March)**

- 303-M
- 303-F
- 303-E
- 303-B

**Demolition Ongoing**

- 303-J – Demolition was completed on March 7, debris load out is ongoing

**Demolition Completed in February**

- 303-A
- 303-G
- 304/304A
- 311 TF
- 3713
- 3722
- 3715

**324/327**

- The public comment period for EE/CA #2 is scheduled to end on April 3, 2006.
- DOE and EPA review of the draft Action Memo #2 for the 300 Area began February 9, 2006
- SAP and RAWP development are ongoing

**Project Look Ahead**

- DOE and EPA review of Draft Action Memo #2 for the 300 Area – *requested completion date, March 22, 2006*
- EPA review of air emission calculations – *requested completion date, March 16, 2006*
- DOE and EPA review of Draft Removal Action Work Plan #2 for the 300 Area – *requested completion date, May 16, 2006*
- DOE and EPA review of Draft EE/CA #3 for the 300 Area to begin March 14, 2006 – *requested completion date, May 05, 2006*
- Public comment period for EE/CA #3 to start in June, 2006